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NEW ANALYSIS OF THE PE-EL-02 ANTENNA CONFIGURATION IN THE USSR (TSR)

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NEW ANALYSIS OF THE PE-EL-02 ANTENNA CONFIGURATION
IN THE USSR (TSR)

1. (TSR) The PE-EL-02 antenna, primarily associated with the type III-X launch control facility (LCF; Table 1), is a guyed mast approximately 26 meters high with a 9-meter vertical appendage (boom or spar) rather than an inclined appendage as previously reported. The 9-meter vertical appendage may support antenna elements or may be the antenna itself.
2. (TSR) In a raised position (Figure 1), the mast supporting the appendage is tilted from the vertical, making the angle between the mast and the vertical appendage less than 180 degrees. The angle between the mast and the gin pole is slightly greater than 90 degrees. In the lowered position (Figure 2), the mast is horizontal while the 9-meter appendage appears to be tilted slightly upward.
3. (TSR) The off-vertical configuration of the supporting mast may allow the antenna to be raised and lowered automatically from the type III-X command and control silo, since the mast is lowered simultaneously with the release of tension from the lifting cable.
4. (TSR) If the PE-EL-02 is an omnidirectional antenna, the LCF would have a link to the other LCFs as well as to the command post bunker and alternate command post bunker.

Table 1. Location and Construction Chronology of the PE-EL-02 Antenna
This table in its entirety is classified TOP SECRET RUFF

Location		25X1
Aleysk LCF BB		25X1
Dombarovskiy LCF FF		25X1
Imeni Gastello LCF BB		25X1
Kartaly LCF CC		25X1
Khmel'nitskiy ICBM Complex Command Post Bunker		25X1
Kostroma LCF II		25X1
Kozelsk LCF JJ		25X1
Kozelsk LCF LL		
Pervomaysk ICBM Complex Command Post Bunker		25X1
Tatishchevo LCF FF		25X1
Tatishchevo LCF GG		25X1
Uzhur LCF DD		25X1
Yedrovo LCF PP		25X1
Yoshkar-Ola LCF B **		25X1
Zhangiz-Tobe LCF BB		
Zhangiz-Tobe LCF CC		

* The antenna is complete but is not in a raised position (see Figure 2).

** This is not a III-X launch control facility.

REFERENCES

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DOCUMENT

1. NPIC: SR-022/78, New Type of Antenna Identified at Type III-X Launch Control Facilities in the USSR (TSR), Mar 78 (TOP SECRET RUFF)

REQUIREMENT

Project 130000NX	25X1
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